Monitoring Data Record

Project Title: R-2248BB – Charlotte Outer Loop COE Action ID: 200131321
Stream Name: UT Thomas Pond (Site 9) DWQ Number: 011231
City, County and other Location Information: Mecklenburg County, Charlotte Outer Loop, NC 27 Exit (Mount Holly Road)
Date Construction Completed: April 2005 Monitoring Year: (1) of 5
Ecoregion: 8 digit HUC unit 03050101
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 1148 ft. Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 2/6/08
Applicant Information:
Name: NCDOT – Roadside Environmental Unit
Address: 1425 Rock Quarry Rd, Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status:

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level **1**

Permit States: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e. identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action);visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the USACE, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the USACE, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 14 photos were taken from 7 photo point locations

Dates reference photos have been taken at this site: 2/6/08

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):
The area at the outlet end of the box culvert at Sta. 219+80-L- lacks woody vegetation.

Estimated causes, and proposed/required remedial action: This area will be supplementally planted with bareroot seedlings

ADDITIONAL COMMENTS: Vegetation is dormant at this time. Streambank reforestation consisted of Type 1: Black Willow and Silky Dogwood and Type 2: Green Ash, Black Willow, Tulip Poplar, and Tag Alder.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT Thomas Pond stream relocation is stable for the Year 1 Winter evaluation. The crossvane at Photo Point #1 (Upstream) has water piping under crossvane but the stream is stable at this time. There was also some minor bank scouring at the outlet end of the box culvert at Sta 219+80 -L- on the left and right bank (additional photo showing this area). NCDOT will continue to monitor this stream relocation for channel stability.

Date 2/6/08	Station 17+40 Y-10	Station 219+80-L-	Station Number	Station Number	Station Number
Structure Type	Crossvane @ inlet of pipe				
Is water piping through or around structure?	Water is piping under crossvane.				
Head cut or down cut present?					
Bank or scour erosion present?		Minor bank scouring on left and right bank @ outlet end of box culvert			
Other problems noted?					

UT Thomas Pond

Photo Point #1 (Upstream)

Photo Point # 1 (Downstream)

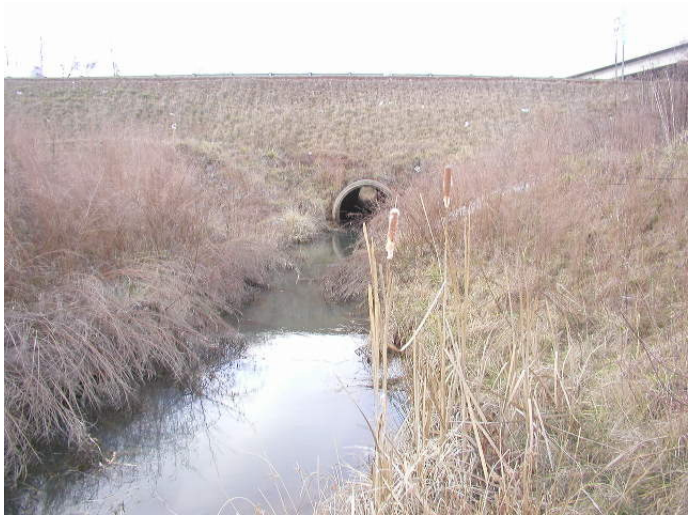


Photo Point # 2 (Upstream)

Photo Point #2 (Downstream)

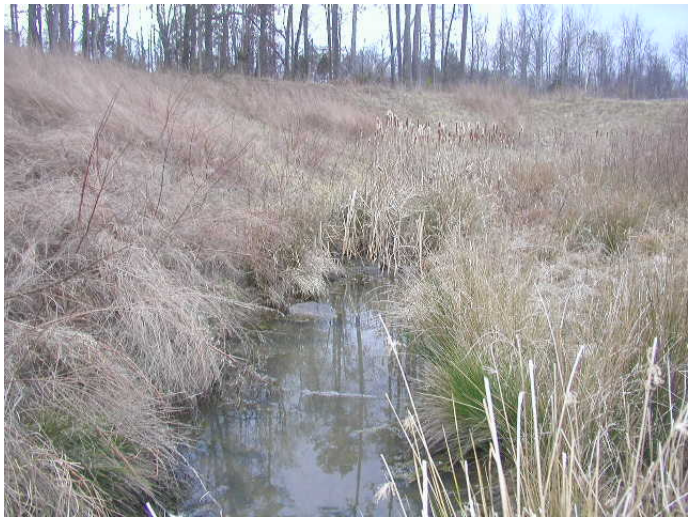


Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

Year 1 Winter- February 2008

UT Thomas Pond

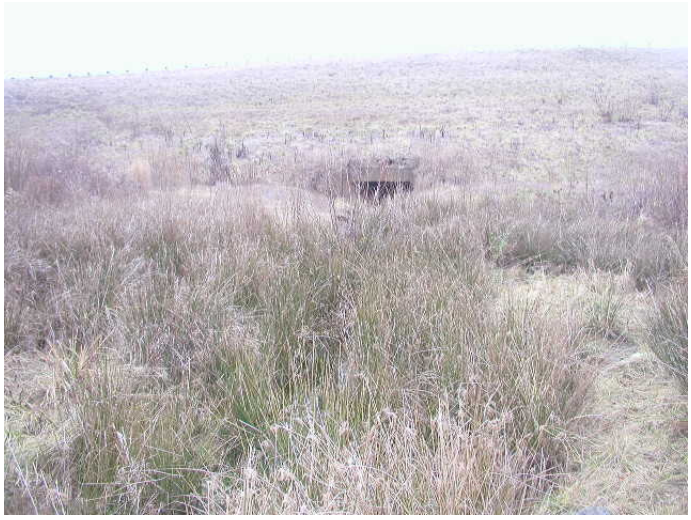


Photo Point # 4 (Upstream)

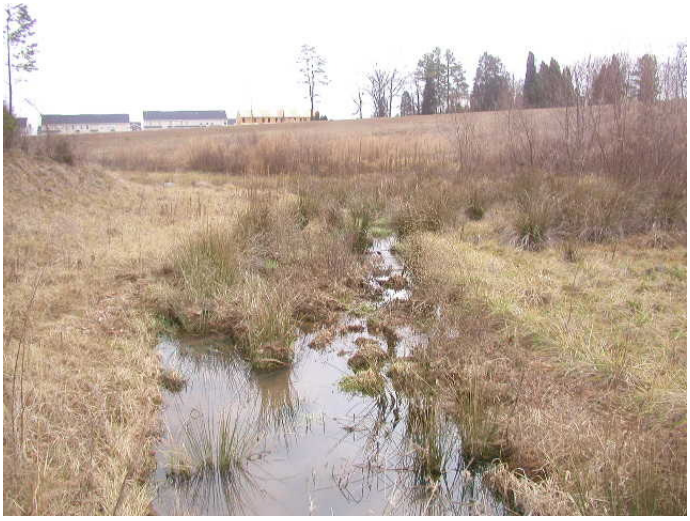


Photo Point #4 (Downstream)

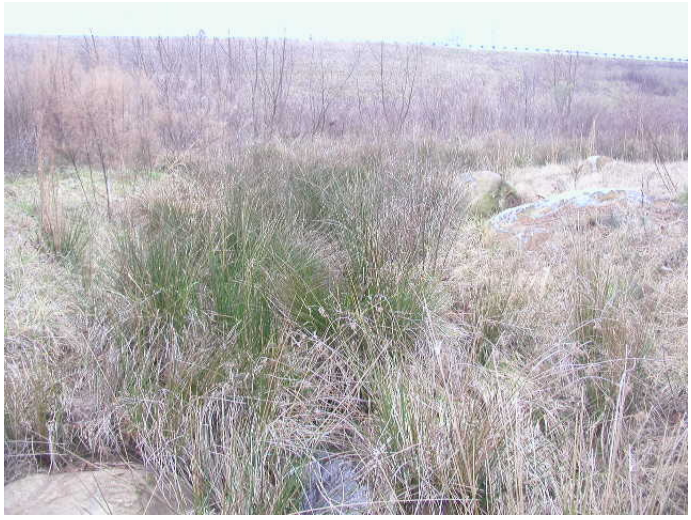


Photo Point #5 (Upstream)

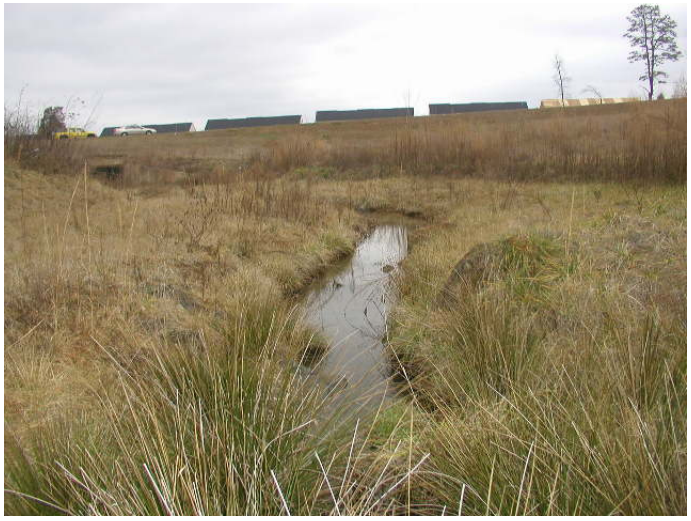


Photo Point #5 (Downstream)

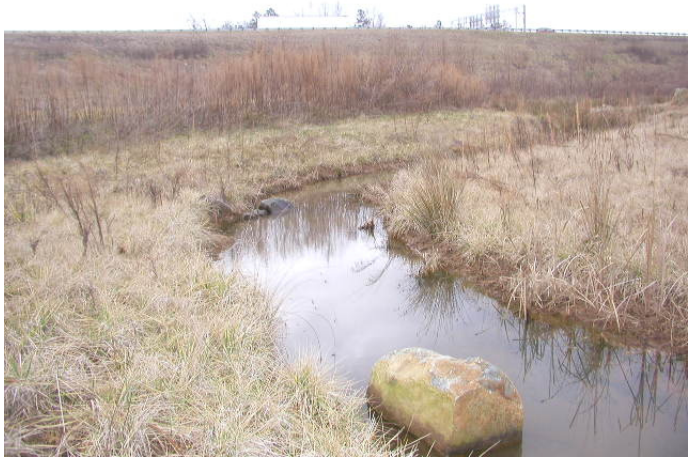


Photo Point #6 (Upstream)

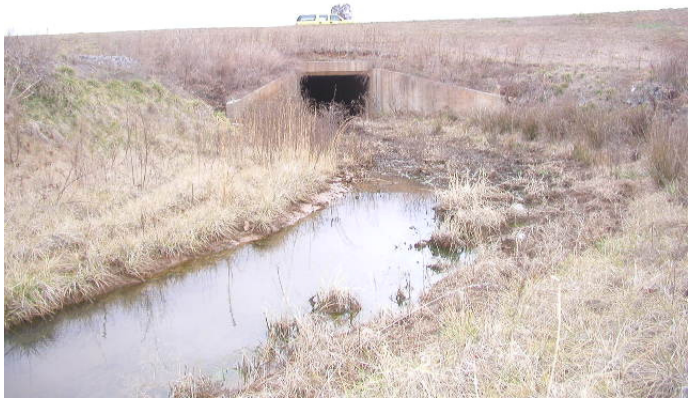


Photo Point #6 (Downstream)

Year 1 Winter – February 2008

UT Thomas Pond

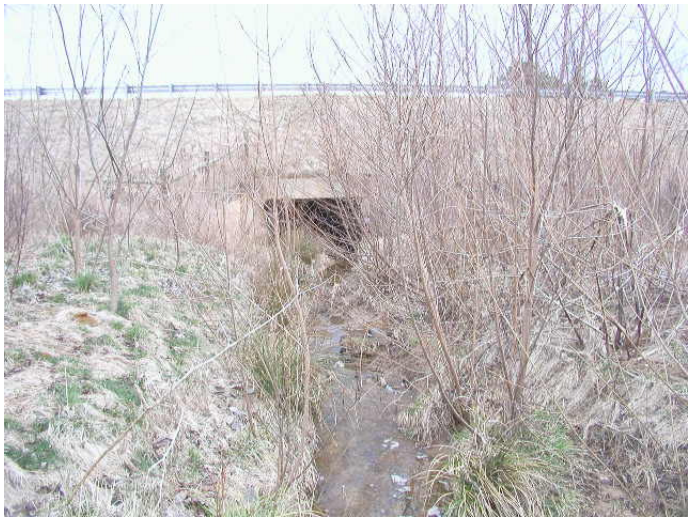
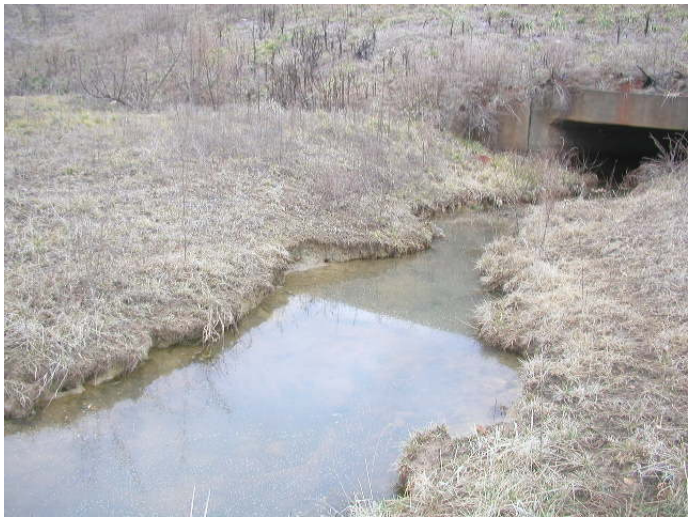


Photo Point #7 (Upstream)

Photo Point #7 (Downstream)



Bank Scouring @ Sta. 219+80-L-